CREATE TABLE users (

user\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL,

email VARCHAR(100) UNIQUE NOT NULL,

password\_hash VARCHAR(255) NOT NULL,

role ENUM('student', 'teacher', 'admin') NOT NULL,

created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP

);

CREATE TABLE student\_details (

student\_id INT PRIMARY KEY,

user\_id INT UNIQUE,

FOREIGN KEY (user\_id) REFERENCES users(user\_id) ON DELETE CASCADE

);

CREATE TABLE teacher\_details (

teacher\_id INT PRIMARY KEY,

user\_id INT UNIQUE,

FOREIGN KEY (user\_id) REFERENCES users(user\_id) ON DELETE CASCADE

);

CREATE TABLE courses (

course\_id INT PRIMARY KEY AUTO\_INCREMENT,

course\_name VARCHAR(100) NOT NULL,

description TEXT,

department VARCHAR(50),

credits INT CHECK (credits >= 0)

);

CREATE TABLE enrollments (

enrollment\_id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT,

course\_id INT,

FOREIGN KEY (user\_id) REFERENCES students(user\_id)

ON DELETE CASCADE,

FOREIGN KEY (course\_id) REFERENCES courses(course\_id)

ON DELETE CASCADE

);

CREATE TABLE course\_materials (

material\_id INT PRIMARY KEY AUTO\_INCREMENT,

course\_id INT NOT NULL,

uploaded\_by INT NOT NULL, -- references teacher's user\_id

title VARCHAR(100) NOT NULL,

description TEXT,

file\_url TEXT NOT NULL, -- path or URL to the uploaded file

file\_type VARCHAR(50), -- e.g., 'pdf', 'video', 'doc'

uploaded\_at DATETIME DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (course\_id) REFERENCES courses(course\_id) ON DELETE CASCADE,

FOREIGN KEY (uploaded\_by) REFERENCES users(user\_id) ON DELETE SET NULL

);